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Attorney Docket No.: GP-303311

## IN THE CLAIMS

Please amend claims 1, 9, 12, 22, 29-31, 33 and 34 as follows.

- 1. (Currently amended) A catalyst prepared by:

  providing a zeolite carrier;

  providing a cupric salt aqueous solution; and

  defining a copper zeolite catalyst by carrying

  out an ion exchange reaction between copper ions and said

  zeolite carrier in said cupric salt aqueous solution at a

  temperature of from about 4°C to about 25°C 14°C.
- 2. (Original) The catalyst of claim 1 wherein said zeolite catalyst carrier has a silicon/aluminum mole ratio of from about 14 to about 95.
- 3. (Original) The catalyst of claim 1 wherein said copper zeolite catalyst comprises a copper content of from about 0.1% to about 10% by weight.
- 4. (Original) The catalyst of claim 3 wherein said zeolite carrier has a silicon/aluminum mole ratio of from about 14 to about 95.

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- 5. (Original) The catalyst of claim 1 wherein said defining a copper zeolite catalyst further comprises the step of calcining said copper zeolite catalyst at a temperature of from about 300°C to about 700°C.
- 6. (Original) The catalyst of claim 5 wherein said zeolite carrier has a silicon/aluminum ratio of from about 14 to about 95.
- 7. (Original)The catalyst of claim 5 wherein said copper zeolite catalyst comprises a copper content of from about 0.1% to about 10.0% by weight.
- 8. (Original) The catalyst of claim 7 wherein said zeolite carrier has a silicon/aluminum mole ratio of from about 14 to about 95.
- 9. (Currently amended) A catalyst prepared by:

  providing a zeolite carrier having a

  'silicon/aluminum mole ratio of from about 14 to about 30;

  providing a cupric salt aqueous solution having a

  concentration of from about 0.001 molar to about 10 molar;

  defining a copper zeolite catalyst by carrying

  out an ion exchange reaction between copper ions and said

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zeolite carrier in said cupric salt aqueous solution at a temperature of from about 4°C to about 25°C 14°C; and calcinating said copper zeolite catalyst at a temperature of from about 300°C 550°C to about 700°C.

- 10. (Original) The catalyst of claim 9 wherein said cupric salt aqueous solution is copper sulfate, copper nitrate, copper acetate or copper chloride.
- 11. (Original) The catalyst of claim 9 wherein said copper zeolite catalyst comprises a copper content of from about 2.5% to about 3.5% by weight.
- 12. (Curently amended) A process for preparing a
  catalyst, comprising the steps of:

providing a zeolite carrier;

providing a cupric salt aqueous solution;

defining a copper zeolite catalyst by carrying out an ion exchange reaction between copper ions and said zeolite carrier in said cupric salt aqueous solution at a temperature of from about 4°C to about 25°C 14°C; and calcinating said copper zeolite catalyst.

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- 13. (Original) The process of claim 12 wherein said zeolite carrier has a silicon/aluminum mole ratio of from about 14 to about 95.
- 14. (Original) The process of claim 12 wherein said copper zeolite catalyst comprises a copper content of from about 0.18 to about 10.0% by weight.
- 15. (Original) The process of claim 14 wherein said zeolite carrier has a silicon/aluminum mole ratio of from about 14 to about 95.
- 16. (Original) The process of claim 12 wherein said calcining said copper zeolite catalyst comprises calcining said copper zeolite catalyst at a temperature of from about 300°C to about 700°C.
- 17. (Original) The process of claim 16 wherein said zeolite carrier has a silicon/aluminum mole ratio of from about 14 to about 95.
- 18. (Original) The process of claim 16 wherein said copper zeolite catalyst comprises a copper content of from about 0.1% to about 10.0% by weight.

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19. (Original) The process of claim 12 wherein said cupric salt aqueous solution is copper sulfate, copper nitrate, copper acctate or copper chloride having a concentration of from about 0.001 molar to about 10 molar.

- 20. (Original) The process of claim 19 wherein said zeolite carrier has a silicon/aluminum mole ratio of from about 14 to about 95.
- 21. (Original) The process of claim 19 wherein said calcining said copper zeolite catalyst comprises calcining said copper zeolite catalyst at a temperature of from about 300°C to about 700°C.
- 22. (Currently amended) A process for removing nitrogen oxides from a gaseous medium, comprising the steps of:

providing a catalyst prepared by providing a cupric salt aqueous solution, providing a zeolite carrier, and causing an ion exchange reaction between copper ions and said zeolite carrier in said cupric salt aqueous solution at a temperature of from about 4°C to about 25.0-14°C;

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defining a gaseous mixture by providing a reducing agent and mixing said reducing agent with said gaseous medium; and

passing said gaseous mixture through said catalyst.

- 23. (Original) The process of claim 22 wherein said reducing agent is ammonia or urea.
- 24. (Original) The process of claim 22 wherein said cupric salt aqueous solution is copper sulfate, copper nitrate, copper acetate or copper chloride having a concentration of from about 0.001 to about 10 molar.
- 25. (Original) The process of claim 22 wherein said zeolite carrier has a silicon/aluminum ratio of from about 14 to about 95.
- 26. (Original) The process of claim 22 wherein said catalyst has a copper content of from about 0.1% to about 10.0% by weight.
- 27. (Original) The process of claim 22 wherein said catalyst is prepared by further calcining said catalyst at a temperature of from about 300°C to about 700°C.

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28. (Original) The process of claim 22 wherein said passing said gaseous mixture through said catalyst comprises passing said gaseous mixture through said catalyst at a temperature of from about 150°C to about 500°C and a spatial velocity of from about 100 hr. to about 400,000 hr. .

29. (Currently amended) A copper zeolite catalyst comprising:

a zeolite carrier having a silicon/aluminum mole ratio of from about  $\frac{14}{21}$  to about 95; and

copper provided on said zeolite carrier in a quantity of from about 0.13 5.38 to about 10.08 by weight.

- 30. (Currently amended) The copper zeolite catalyst of claim 29 wherein said zeolite carrier has a silicon/aluminum mole ratio of from about 44 31 to about 30 50.
- 31. (Currently amended) The copper zeolile catalyst of claim 29 wherein said copper is provided on said zeolite carrier in a quantity of from about 2.5% 6.0% to about 3.5% 8.0% by weight.

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- 32. (Original) The copper zeolite catalyst of claim 31 wherein said zeolite carrier has a silicon/aluminum mole ratio of from about 14 to about 30.
- 33. (Currently amended) A zeolite carrier comprising a silicon/aluminum mole ratio of from about 44 31 to about 95 and copper provided on said zeolite carrier in a quantity of at least about 5.3%.
- 34. (Currently amended) The zeolite carrier of claim 33 wherein said silicon/aluminum mole ratio is from about 14 31 to about 30 40.